

ABSTRACT

A non-crosslinked, decellularized and purified mammalian tissue (e.g., bovine pericardium) having particular use as an implantable resorbable material. The material is treated by alkylating its primary amine groups in a manner sufficient to reduce the antigenicity of the tissue, permitting the treated tissue to be used *in vivo* and without crosslinking, and in turn, permitting it to be resorbable. The material can be used in surgical repair of soft tissue deficiencies for a certain period of time while the implant itself is gradually remodeled or absorbed by the host. Also provided are a method of preparing such a material, as well as a method of using such a material for surgical repair.